

IN THE CLAIMS:

Please cancel claims 22-35.

Please add new claims 36-61 as follows:

36. Isolated microbicidal peptide having an amino acid sequence that comprises at least the amino acid sequence of TC-1 as given in Figure 1 (SEQ ID NO: 12), optionally with the following modifications:

- (a) at least the two C-terminal amino acids alanine and aspartic acid are removed; and/or
- (b) the peptide is provided with an N-terminal His-tag-containing sequence.

37. Isolated peptide as claimed in claim 36, wherein the amino acid sequence of TC-1 is extended at its N-terminus with at least one of the following selections of amino acids, given from N-terminus to C-terminus:

- (a) one or more of the 17 N-terminal amino acids of TC-2 in the sequence as given in Figure 1 (SEQ ID NO: 6); or
- (b) a methionine; or
- (c) a tyrosine; or
- (d) a methionine and one or more of the 17 N-terminal amino acids of TC-2 in the sequence as given in Figure 1 (SEQ ID NO: 6); or
- (e) a methionine and a tyrosine; or
- (f) a methionine and a tyrosine and one or more of the N-terminal amino acids of TC-2 in the sequence as given in Figure 1 (SEQ ID NO: 6),

wherein, in the case in which a His-tag containing sequence is present, this sequence is located N-terminally of the peptides as defined in (e) or (f).

38. Isolated microbicial peptide according to claim 36, wherein the peptide is thrombocidin-1 (TC-1) as depicted in Figure 1 (SEQ ID NO:12).

39. Isolated microbicial peptide according to claim 37, wherein the peptide is thrombocidin-1* (TC-1*) as depicted in Figure 1 (SEQ ID NO: 3).

40. Isolated microbicial peptide according to claim 37, wherein the peptide is thrombocidin-2 (TC-2) as depicted in Figure 1 (SEQ ID NO: 6).

41. Isolated microbicial peptide according to claim 37, wherein the peptide is thrombocidin-1a (TC-1a) as depicted in Table 1.

42. Isolated microbicial peptide according to claim 37, wherein the peptide is thrombocidin-1b (TC-1b) as depicted in Table 1.

43. Isolated microbicial peptide according to claim 37, wherein the peptide is thrombocidin-1d (TC-1d) as depicted in Table 1.

44. Isolated microbicial peptide according to claim 37, wherein the peptide is recombinant thrombocidin-1* (rMTC-1*) as depicted in Figure 2 (SEQ ID NO: 14).

45. Isolated microbicial peptide according to claim 37, wherein the peptide is recombinant thrombocidin-2 (rMTC-2) as depicted in Figure 2 (SEQ ID NO: 15).

46. Isolated microbical peptide according to claim 37, wherein the peptide is recombinant his-tagged thrombocidin-1 (rYTC-1) as depicted in Figure 2 (SEQ ID NO: 16).

47. Isolated microbical peptide according to claim 37, wherein the peptide is recombinant his-tagged NAP (rYNAP) as depicted in Figure 2 (SEQ ID NO: 17).

48. Isolated microbical peptide according to claim 36, wherein said peptide exhibits bactericidal activity against gram-positive and gram-negative bacteria.

49. Isolated microbical peptide according to claim 36, wherein said peptide exhibits bactericidal activity against at least one of *Escherichia coli*, *Bacillus subtilis*, *Streptococcus sanguis*, *Streptococcus pneumoniae*, *Staphylococcus epidermis*, and *Staphylococcus aureus*.

50. Isolated microbical peptide according to claim 36, wherein said peptide exhibits fungicidal activity against fungi.

51. Isolated microbical peptide according to claim 36, wherein said peptide exhibits fungicidal activity against at least one of *Candida albicans*, *C. glabrata*, *Cryptococcus neoformans*, *Aspergillus flavus*, *A. fumigatus*, and *Pseudoallescheria spec.*

52. Isolated microbical peptide having an amino acid sequence that is at least 70% homologous to the amino acid sequence of peptides according to claim 36.

53. Isolated microbicidal peptide having an amino acid sequence that is at least 80% homologous to the amino acid sequence of peptides according to claim 36.

54. Isolated microbicidal peptide having an amino acid sequence that is at least 90% homologous to the amino acid sequence of peptides according to claim 36.

55. Isolated microbicidal peptide having an amino acid sequence that is at least 95% homologous to the amino acid sequence of peptides according to claim 36.

56. Method for the treatment of at least one of bacterial infection and fungal infection in humans and animals, comprising administering an isolated microbicidal peptide according to claim 36.

57. The method of claim 56, wherein the infection is endocarditis.

58. Method for preparing a medicament for the treatment of at least one of bacterial infection and fungal infection in humans and animals, comprising incorporating a peptide according to claim 36 into a formulation.

59. Method for preparing release systems for the prevention of at least one of bacterial infection and fungal infection in humans and animals, comprising incorporating a peptide according to claim 36 into a formulation.

60. The method of claim 59, wherein the infection is endocarditis.